

## LINE START PERMANENT MAGNET MOTOR

## ABSTRACT OF THE DISCLOSURE

Divided magnet rotors R having a stepped skew rather than a helical skew are described. The stepped skew enables the use of straight magnet sections (44) that can be inserted into the rotor core notches (38) thereby eliminating the need to produce a helix from the rotor cage. The stepped skew is effective in decoupling stator slot order harmonics. In addition, the stepped skew rotor R includes, in some embodiments, open slots (22) so that the rotor is not subject to rotor bridge saturation.